## Math 3 Guided Notes Unit 1 Day 7 - Piecewise Functions continued

Example 1: Graph the following piecewise function.
$f(x)=\left\{\begin{array}{c}2 x-3, \text { if } x \leq-2 \\ -2, \text { if }-2<x<1 \\ (x-3)^{2}-1, \text { if } 1 \leq x<5\end{array}\right.$

$\square$

Example 2: Write the piecewise function given the graph below.


Examples 3 \& 4: Write the piecewise function given the graphs below.



Example 5: Application Problem
At a silk screen shirt company, they charge the following to make shirts:

- An initial charge of $\$ 20$ to create the silk screen
- $\$ 17.00$ per shirt for orders of 50 or fewer shirts
- $\$ 15.80$ per shirt for orders of more than 50 shirts

Write a piecewise function that gives the cost $C$ for an order of $x$ shirts. Graph the function.

